No.



8500108

TO ALL TO WHOM THESE PRESENTS SHALL COME;

McIntyre-Pyle Seeds, Inc.

Concreas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S), AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-LUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. United States seed of this variety (1) shall be sold by variety name only as OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS Y THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Leif'

In Testimony Watercot, Thave hereunto set my hand and caused the seal of the Plant Tariety Protection Office to be affixed at the City of Washington, D. C. 31st day of March the year of our Lord one thousand nine hundred and eighty-eight.

nt Variety Protection Offic

cultural Marketing Service

FORM WA-470 (7-84) (Edition of 3-84 is obsolete.)

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF THE VARIETY

Leif is the result of hybridization and individual plant selections from the cross Era/Buck Cimarron, made by the Northrup King Company. Our pedigree is N8688-14F-3A-2F-1A-OF.

We made the cross in the field at Eden Prairie, Minnesota in the summer of 1973. The F_1 was grown in the field at Yuma, Arizona during the winter of 1974. This was followed by individual plant selections in alternating generations between Moorhead, Minnesota and Yuma, Arizona during the F_2 through F_5 generations. In 1976, the F_6 plant progeny row at Moorhead was harvested to provide seed for preliminary yield trials in 1977. The 1977 experimental designation for Leif was 77S 4342 which remained the permanent variety number until release.

Seed from the 1977 preliminary yield trial (F_7) at Yuma, Arizona was used to plant replicated yield trials (F_8) in 1978, and also a plot increase at Yuma, Arizona. Ten heads were selected out of the small plot increase at Yuma to begin our head-row program. F_9 head-rows were grown at Oceanside, California in 1978. Ten heads were again selected out of row 78ISH13761 at Oceanside and planted in separate head-rows (F_{10}) at Yuma, Arizona in 1979. Pure-line increases of these lines were made in Yuma, Arizona in 1981. In 1981 one line, 79ASH14455, was identified to represent the variety. This line was again increased at Yuma in 1982 and 1983 to produce breeders seed, lots 82ASH35001 and 83ASH45001, respectively. Leif is then derived from an F_{10} head-row that was increased in 1981-1982 at Yuma as an F_{13} .

Leif, 77S 4342, was entered in the 1982 and 1983 Uniform Regional Hard Red Spring Wheat Nursery by the Northrup King Company. In 1982 URHRSWN tests the average yield for Leif over 15 locations was 3484 kg/ha or 1028 of Era. The 1983 average yield for Leif over 17 locations was 3188kg/ha or 100% of Era.

Leif is uniform and stable. A foundation seed field was produced from lot 82ASH35001, at Moorhead, Minnesota during 1983. This Foundation Seed production was inspected and approved by the Minnesota Crop Improvement Association.

In July, 1984, Rohm and Haas Seeds Inc. purchased the midwest hard red spring wheat breeding germ plasm from Northrup King Company. The ownership of Deif was transferred to Rohm and Haas Seeds at this time.

EXHIBIT B

NOVELTY STATEMENT

Leif is most similar to "Era", but differs in plant height, heading date, beak length, and field reaction to leaf rust (Puccinia recondita) physiologic races present during the crop years 1979-1984 at Moorhead, Minnesota. Plant height for Leif averages 6 cm taller than the plant height for Era. The date of heading for Leif averages about two days earlier than that for Era. Leif has beaks that are 1.5 to 2.5 mm in length, whereas, the beaks for Era (under similar growing conditions) are 3 to 7 mm in length. Adult plant resistance of Leif to leaf rust has been observed in the field to be different than the adult plant resistance for Era.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20706

EXHIBIT C (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.	WHEAT (TRIT	ICUM SPP.)	500 05510111 1155 011 2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a ne e se en		FOR OFFICIAL USE ONLY
Rohm and Haas Seeds In ADDRESS (Street and No. or R.F.D. No., City	, State, and ZIP Code)		P VPO NUMBER 8500108
Independence Mall West Philadelphia, PA 19105			VARIETY NAME OR TEMPORARY DESIGNATION Leif (77S 4342)
Place the appropriate number that descri Place a zero in first box (e.s. 0 8 9			
1. KIND: 1 = COMMON 2 = DURUM 3 = E	MMER 4=SPELT 5=	POLISH 6 = POUI	ARD 7 = CLUB
2. TYPE: 1 1 = SPRING 2 = WINTER 3 = OT	HER (Specify)	1 = SOFT 2 = HARD	3 = OTHER (Specify)
2 T WHITE 2 = RED 3 = OTHER	(Specify)	y vigin tigatusi.	
3. SEASON - NUMBER OF DAYS FROM EME	RGENCE TO:		
FIRST ELOWERING		LAST	FLOWERING
4. MATURITY (50% Flowering):	Programme (Programme)		(1) 「関係」では、これで解析する。 のは、 のは、 のは、 のは、 のは、 のは、 のは、 のは、
0 2 NO. OF DAYS EARLIER THAN		7 1 = ARTHUR	2 = SCOUT 3 = CHRIS
0 5 NO. OF DAYS LATER THAN		8 7 = Era	5 = NUGAINES 6 = LEEDS 8 = Butte
. PLANT HEIGHT (From soil level to top of	head):		
8 6 cm. High			
0 6 CM. TALLER THAN	्र स्टब्स् इत्यक्षिका पूर्ण स्टब्स्ट्रिस्ट्र्	7	2 = SCOUT 3 = CHRIS
O 2 CM. SHORTER THAN	3.5.34.24	8 7 = Era 4 = LEMHI	8 = BULLES 6 = LEEDS
PLANT COLOR AT BOOTING (See reverse): 	. ANTHER COLOR:	SECTION OF THE PROPERTY OF THE
2 1 = YELLOW GREEN 2 = GREEN	3 = BLUE GREEN	1 1 = YELLOW	2 = PURPLE
. STEM:	aku ji ji ji alawati j		
Anthocyanin:] = ABSENT 2 = PR	ESENT	2 Waxy bloom: 1:	= ABSENT 2 = PRESENT
Hairiness of last internode of rachis: 1 = ABSENT	= PRESENT	-	HOLLOW 2 = SOLID
No. of Nodes (Originating from n	ode above ground)		NODE LENGTH BETWEEN FLAG LEAF F BELOW
AURICLES:			
Anthocyanin:] = ABSENT 2 = PR	ESENT	2 Hairiness: 1 = 4	ABSENT 2 = PRESENT
. LEAF:			
Flag leaf at 1 = ERECT 2 = booting stage: 3 = OTHER (Specify):	RECURVED	7 Flag leaf: 1 = 1	OT TWISTED 2 = TWISTED
Hairs of first leaf sheath: * = ABSENT	2 = PRESENT	2 Waxy bloom of fl	ag leaf sheath: 1 = ABSENT 2 = PRESENT
4 MM. LEAF WIDTH (First leaf bel	ſ	3 2 CM. LEAF	LENGTH (First leaf below flag leaf):

112.18			8500108
11. HEAD:		Chance la Tanta	2-2-2-2
1 Density: = LAX		1 1 1 1 0 7 1 5 7	NG 2 = STRAP 3 = CLAVATE (Specify)
	NLESS 2 = APICALLY AWNLETED 3		anterior de la companya de la compa Porto de la companya
Color at maturity: 5	= WHITE 2 = YELLOW 3 = PINK 4 = BROWN 6 = BLACK 7 = OTHE	= RED R (Specify):	
	en en stage en transfer en	MM. WIOTH	
12. GLUMES AT MATURI	TY:		
1 Length: 1 = SHORT 3 = LONG ((CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) CA. 9 mm.)	2 Width: 1 = NARROW 3 = WIDE (CA	(CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 4. 4 mm.)
	ING 2 = OBLIQUE 3 = ROUNDED RE 5 = ELEVATED 6 = APICULATE	Beak: 1 = OBTUSE	2 = ACUTE 3 = ACUMINATE
13. COLEOPTILE COLOR	:	14. SEEDLING ANTHOCY	
1 = WHITE 2 = R	ED 3=PURPLE	1 = ABSENT 2	
15. JUVENILE PLANT GR	OWTH HABIT:	e de la companya de l	
3 1 = PROSTRATE	2 = SEMI-ERECT 3 = EREC	:т	
16. SEED:			
Shape: 1 = OVATE	2 = OVAL 3 = ELLIPTICAL	1 Cheek: 1 = ROUNDE	D 2 = ANGULAR
Brush. 1 = SHORT	2 = MEDIUM 3 = LONG	Brush: = NOT CO	LLARED 2 = COLLARED
Phenol reaction (See instructions):	1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK	•	
3 Color: I = WHITE	2 = AMBER 3 = RED 4 = PURPLE	5 = OTHER (Specify)	
0 6 MM. LENGTH	0 4 MM. WIDTH	3 6 GM. PER 1000	SEEDS
17. SEED CREASE:		· · · · · · · · · · · · · · · · · · ·	Y
2 Width: 1 = 60% OR L	ESS OF KERNEL 'WINOKA'	2 Depth: 1 = 20% OR	LESS OF KERNEL 'SCOUT'
2 = 80% OR L	ESS OF KERNEL 'CHRIS'	2 = 35% OR	LESS OF KERNEL 'CHRIS'
	AS WIDE AS KERNEL 'LEMHI'	3 = 50% OR	LESS OF KERNEL 'LEMH!'
	ted, 1 = Susceptible, 2 = Resistant)		
2 STEM RUST TNM, T	(Races)	STRIPE RUST	LOOSE SMUT
QSH, RHR	BUNT	OTHER (Specify)	verettereplane en e
19. INSECT: (0 = Not Test	ed, 1 = Susceptible, 2 = Resistant)		***************************************
O SAWFLY	O APHID (Bydv.)	GREEN BUG	CEREAL LEAF BEETLE
OTHER (Specify)	HESSIAN FLY	GP A	в С
en e	RACES:	D D E	F
20. INDICATE WHICH VARI	ETY MOST CLOSELY RESEMBLES THAT S	UBMITTED:	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Era	Seed size	Era
. Leaf size	Era	Seed shape	Era
Leaf color	0.Laf	Coleoptile elongation	Era
Leaf carriage	Marshall	Seedling pigmentation	Era
	INSTRU	CTIONS	

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenol Method for Texting Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

FORM LPGS 470-6 (3-79) (Reverse)

ADDITIONAL DESCRIPTION OF THE VARIETY

Leif is a cultivar of Triticum aestium L. with spring growth habit. The kernels are hard, red, and ovate in shape. The cheeks are normally rounded. The crease is midwide and middeep to shallow. Germs are midsized and the brush is midsize and midlong. Spikes are awned, fusiform to oblong and lax to middense. Glumes are white, glabrous, short, and midwide. The glume shoulders are square and narrow to midwide. The beaks are acuminate, narrow to midwide, and 1½ to 2½ mm in length.

The coleoptile color is white and seedling anthocyanin is absent. Juvenile plant growth is erect. Plant color at booting is dark green. Waxy bloom is present on the flag leaf sheath and stem. Auricles have no anthocyanin and hairs are present. The stem internodes are hollow and contain no anthocyanin. Usually three nodes originate from the node above ground. The flag leaf is are erect and twisted later becoming recurved at booting.

This variety is a tall semidwarf with height slightly shorter (2-3 cm) than Butte and about 6 cm taller than Era on the average. Relative maturity is medium-late, slightly later than Era. Heading date for Leif on the average is about two days earlier than Era and five days later than Butte. Leif is resistant to most races of stem rust (Puccinia graminis f. sp. tritici) and leaf rust (P. recondita). Seedling stem rust reactions were conducted by the Cereal Rust Laboratory in 1983. The following infection types were observed:

		1.784	R	ACE			98 30 - 2
The second of th		ું કું કેંગ્રું કું કે L5હB−2	151		e salah s Salah salah sa	L1-32-113	
Variety	TNMN	TNMK	<u>QSHS</u>		RHRS	RKQS	RTQQ
Leif	0;	0;	; 1		0;	0;	1
Era	;	1888	3,2		7	;	;
Butte	;	;	2-		;	2	2-

Overall milling and baking score is slightly lower than Era, but protein content averages about one percent higher than Era.

Table 1. Test weight of Leif in comparison to Era and Butte grown in replicated small plots at Moorhead, Minnesota in 1979-1984.

	earandnd iment No.	Leif kg/hl	Era kg/hl	Butte kg/hl
1979	Exp. 60	80.1	79.2	79.8
1980	Exp. 64	80.5	80.1	80.5
1981	Exp. 79	80.1	76.5	80.6
1982	Exp. 55 Exp. 59 Average	83.0 82.7 82.9	$\frac{80.8}{81.1}$	83.7 82.3 83.0
1983	Exp. 75 Exp. 77 Average	74.7 74.7 74.7	75.3 77.2 76.3	70.2 74.7 72.5
1984	Exp. 54 Exp. 56 Exp. 58 Average	82.4 81.6 82.9 82.3	83.7 82.9 82.1 82.9	83.7 81.9 83.4 83.0
6 -6 Y	ear Average	80.1	79.3	79.9
	•			

Table 2. Heading dates of Leif in comparison to Era and Butte grown in replicated small plot trials at Moorhead, MN from 1979-1984.

	ear and		Days from Jan.	1
Experi	iment No.	Leif	Era	Butte
1979	Exp. 60	193	193	187
1980	Exp. 64	174	176	170
1981	Exp. 79 Exp. 88 AVerage	179 177 178	180 180 180	172 169. 170.5
1982	Exp. 55 Exp. 59 Average	179 179 179	180 183 181.5	175 176 175.5
1983	Exp. 75 Exp. 77 Average	183 186 184.5	186 <u>186</u> 186	183 183 183
1984	Exp. 54 Exp. 56 Exp. 58 Average	174 174 174 174	176 177 177 176.7	169 169 169 169
6 - Ye	ar Average	180.4	182.2	175.8

Table 3. Relative maturity of Leif in comparison to Era and Butte grown in replicated small plot trials at Moorhead, MN from 1979-1984.

	ear and	Relat	ive Maturity ($(1-9)\frac{1}{2}$
Experi	ment No.	Leif	Era	Butte
1979	Exp. 60	7	6	6
1980	Exp. 64	5	5	3
1981	Exp. 79 Exp. 88 Average	5 5 5.0	5 5 5.0	6 2 4.0
1982	Exp. 55 Exp. 59 Average	5 <u>4</u> 4.5	3 5 4.0	$\begin{array}{c} 3\\ \hline 3\\ \hline 3.0 \end{array}$
1983	Exp. 75 Exp. 77 Average	3 5 4.0	$\frac{3}{4}$	6 5 5 5.5
1984	Exp. 54 Exp. 56 Exp. 58 Average	6 4 5 5.5	6 5 3 4.7	3 2 3 2.7
6 - ¥ e	ar Average	5.2	4.7	4.0

^{1/ 1-9} scale where 1=Very Early and 9=Very Late.

Table 4. Plant height of Leif in comparison to Era and Butte in replicated small plots at Moorhead, Minnesota from 1979-1984.

Year and Experiment No. Lei 1979 Exp. 60 80 1980 Exp. 64 85	71	Butte 85 93
1979 Exp. 60 80	71	85
	83	
1980 Exp. 64 85		93
1981 Exp. 79 992 Exp. 88 89 Average 90		87 85 86
1982 Exp. 55 89 Exp. 59 90 Average 89		100 <u>92</u> 96
1983 Exp. 75 81 Exp. 77 83 Average 82		80 82 81
1984 Exp. 54 92 Exp. 56 82 Exp. 58 86 Average 86	82 84	89 85 85 86.3
6 - Year Average 85	.6 79.3	8719

Table 5. Leaf rust and leaf spot field ratings of Leif in comparison with Era and Butte in replicated small plot trials grown at Moorhead, MN from 1979-1984.

Yea	er and			Lea	f Rust			Lea	f Spot	1/
Experi	ment	No.	e generalis	Leif	Era	Butte		Leif	Era	Butte
						en in internet	- 17 .			<u> </u>
1979	Exp.	60		0 .	10S	0		1	1	1
<u>1980</u>	Exp.	64		0	58	0	*	2	2	2
1981	Exp.	79		0	TS	5 S		1	ľ	1
	Exp.			0	5MS	308		7	1 3	1 5
1982	Exp.	55		0	58	10S		0	2 1	3 7
	Exp.	59		Ō	105	305		0	1	7
1983	Exp.	75		. 0	105	40S		4	3	3
	Exp.	77		0	10S	3 0S		2	2	3 2
1984	Exp.	54		0	5S	20S		2	2	5
- 3.8 N	Exp.	56		0	5MS	20S		4	3	7
	Exp.	58	•	0	TS	205		2	4	6

^{1/} Rating of foliar leaf diseases including Tan Spot, and <u>Septoria</u> species. Scale from 0-9, where 0=none and 9=complete leaf spot infection to the flag leaf.

Quality characteristics of Leif and checks at Moorhead, Minnesota in 1979 and 1980.

						-	
		1979			1980		
Characteristics	Leif	Era	Butte	Leif	Era	Butte	
Wheat Protein	14.85	3.	ဖ	4	A	ی	
Test Weight	61.9	64.0	62.9	63.0	63.2	62.2	
Milling Ext. %	68.1 G-	2	6		m	,	
Farinograph							-
Absorption	62.0	0	J.			ເດ	
Peak	5.50	5.50	S		φ.	_	
Stability	11.00	ж 5	14.00	4.5	4	22.00	
III	35	40				0	
Valorimeter	୍ଦ ପ	59		69	7.1	83	
Flour	V & V		C	L			
Protein	13.65	12.90	15.45	13.30	13.35	.386	
Bake							
Absorption	65.0 G	0.0		īΟ.	0	6	
MIX	3.50 G	.00 VG		.75	4.50	20	
Dough	ტ	G					
Loaf Vol. cc	1000 VG		1000+ EX-	970. G+	-980 VG-		
Score	28 G-	ტ ღ	31 G-			26 G-	
Overall Score	56 G-	62 G	61 G-	57 G-	63 G	57 G-	

EXHIBIT D

Quality characteristics of Leif and checks at Moorhead, Minnesota in 1981 and 1982. 64.5 G 5.00 VG 7 VG-000 VG 35 VG-_6_ 14.75 63.8 70.7 61.6 9.00 15.50 25 Butte 1000 67 1982 62.0 5.50 6 880 30 59.3 6.25 12.00 30 66 Era f ရ ့ စ စ ရ ရ 62.5 3.75 6 855 29 15.20 64.9 69.6 59.6 6.00 8.00 55 Leif f Ü 68.0 V 5.50 v 55 1000 .364 Butte 16.00 61.3 68.0 65.0 11.25 25.00 20 84 Ü 63.5 G 6.00 / 6.00 1000 33 .450 14.70 61.2 70.5 60.7 9.75 23.00 15 1981 Era ង្ខំ មិន្ត្រី មិន មិន្ត្រី មិន U 65.5 3.50 (6 1000+ 30 .416 14.60 15.80 61.6 68.0 62.3 7.00 17.00 20 69 Leif Characteristics Dough Loaf Vol. cc Wheat Protein Overall Score Valorimeter Test Weight Milling Ext. Absorption Absorption Farinograph Stability Protein Table 7. Score Flour Ash

EXHIBIT D

Quality characteristics of Leif and checks at Moorhead, Minnesota in 1983.

Characteristics	Leif	Solar	Waldron
Wheat Protein Test Weight Milling Ext. %	15.48 57.8 63.7 F-	14.62 58.1 72.0 G	16.15 58.5 66.0 F
Farinograph Absorption Peak Stability MTI Valorimteter	59.9 8.25 17.0 30	0.6 6.75 0.25 6	1.0 9.75 0.75
Flour Ash Protein	.456	.534 12,99	.440 14.04
Bake Absorption Mix Dough Loaf Vol. cc Crumb Gräinc Crumb Texture Crumb Color Bake Score	63.0 G 4.50 VG- 1000 VG 66 G 7 VG- 97	63.0 G 5.00 VG 77G VG- 985 VG- 6 G 6 G 97	65.0 G 77 7 VG- 980 VG- 6 G 6 G 97 G+
Overall Score	45	64 G+	62 G



January 13, 1988

Honorable Commissioner
U.S. Plant Variety Protection Office
United States Department of Agriculture
National Agricultural Library Building
Beltsville, Maryland 20705

Dear Sir:

Subject: Application No. PV #8500108 for the Wheat "Leif" filed April 12, 1985

We would like to inform you that Rohm and Haas Seeds Inc. is no longer the owner of the Wheat Variety "Leif" nor of the above application. It has been assigned to McIntyre-Pyle Seeds Inc. whose address is P.O. Box 567, Casselton, North Dakota 58012.

Very truly yours,

Howard A. Mergelkam Vice President

Rohm and Haas Seeds Inc.

/aar

cc: Duane McIntyre, President McIntyre-Pyle Seeds Inc.

McIntyre-Pyle Seeds, Inc.

P. O. Box 567, Casselton, ND 58012 701-347-5355

January 27, 1988

Kenneth H. Evans, Commissioner Plant Variety Protection Office NAL Building, Rm. 500 10301 Baltimore Blvd. Beltsville, MD 20705-2351

Dear Commissioner Evans:

Subject: Wheat Application No. 8500108, 'Leif'

Enclosed is our check #3995 in the amount of \$5.00 to cover the cost of recording assignments. The new applicant representative is Mr. Harvey Pyle.

We would like to know if Plant Variety Protection has been granted on this application. If it has not, is it possible to change the application so that seed of this variety be sold by variety name only as a class of Certified seed (Title V)? If this is possible, what would be involved and what would be the cost?

Sincerely,

Quane McIntyre, President McIntyre-Pyle Seeds, Inc.

Harvey Pyle, Applicant Representative McIntyre-Pyle Seeds, Inc.